

File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-243-6
Relating to Certification of New Motor Vehicle Heavy-Duty Engines

VOLVO TRUCK CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Volvo Truck Corporation 1987 model-year diesel-powered engines have shown compliance with the transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

| <u>Engine Family</u> | <u>Displacement Cubic Inches (Liters)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| HVT0409FPA0 | 409 (6.7) | Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler) |

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:


| <u>Engine Family</u> | <u>Hydrocarbons gm/bhp-hr</u> | <u>Carbon Monoxide gm/bhp-hr</u> | <u>Nitrogen Oxides gm/bhp-hr</u> |
|----------------------|-----------------------------------|--|--------------------------------------|
| HVT0409FPA0 | 1.2 | 3.9 | 4.8 |

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 16th day of October, 1986.


K. D. Drachand, Chief
Mobile Source Division

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer VOLVO TRUCK CORPORATIONEngine Family HVT0409FPA0Liter (CID) 6.7 (409)Eng. Type In-line 6Emission Control Sys. and (Special Features) SPL/(DID, IC, TC)

| Engine Model | Fuel Injection Pump Mfr. Part Number | Injector Mfr. Part Number | Maximum Rated HP at RPM | Fuel Rate mm ³ /stroke (lbs/Hr) | Maximum Rated Torque at RPM | Fuel Rate mm ³ /stroke (lbs/Hr) |
|--------------|--------------------------------------|---------------------------|-------------------------|--|-----------------------------|--|
| TD71FC | Bosch 421520 | Bosch 421479 | 205 @2400 | 108 (85.0) | 590 lb. ft @ 1400 | 120 (55.0) |

Date of Issue _____

Revisions: _____